

## 13 56 Mhz Class D Half Bridge Rf Generator With Drf1400

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### 13 56 Mhz Class D

13.56 MHz, Class-D Half Bridge, RF Generator with DRF1400 Gui Choi Sr. Application Engineer Phone: 541-382-8028, ext. 1205 gchoi@microsemi.com INTRODUCTION The DRF1400 is a MOSFET Half Bridge (HB) Hybrid Device which has been optimized for efficiency and reduced system cost; it is targeted at the HF ISM market arena.

### 13.56 MHz, Class-D Half Bridge, RF Generator with DRF1400

13.56 MHz, Class D Push-Pull, 2KW RF Generator with Microsemi DRF1300 Power MOSFET Hybrid Gui Choi Sr. Application Engineer Phone: 541-382-8028, ext. 1205 gchoi@microsemi.com The DRF1300/CLASS-D Reference design is available to expedite the evaluation of the DRF1300 push-pull MOSFET hybrid.

### The reference design kit contains lethal voltages and high ...

This application note contains the design procedures and measurement results for a 2KW 13.56MHz RF generator using a CLASS D Push-Pull amplifier. To optimize efficiency and minimize cost the design uses a DRF1300 Power MOSFET Hybrid from Microsemi. The DRF1300 consists of two high power gate drivers, two 500V 30A MOSFETs, and several internal bypass capacitors.

### Application Note 13.56 MHz, Class D Push-Pull, 2KW RF ...

Corpus ID: 12860199. A 13.56 MHz high-efficiency current mode class-D amplifier using a transmission-line transformer and harmonic filter @article{Seo2011A1M, title={A 13.56 MHz high-efficiency current mode class-D amplifier using a transmission-line transformer and harmonic filter}, author={Mincheol Seo and Jeongbae Jeon and Inoh Jung and Youngoo Yang}, journal={Asia-Pacific Microwave ...

### A 13.56 MHz high-efficiency current mode class-D amplifier ...

Standard 13.56 MHz Read/Write Credentials Providing the industry's broadest range of smart card-based credentials HID Global delivers a complete solution of secure smart card IDs and credentials in a variety of form factors for physical and logical access control as well as converged solutions for building and computer access, transit payment ...

### iCLASS ID Cards - Smart Card Credentials | HID Global

Explore the 13.56 MHz wireless spectrum usage by device FCC ID and FCC Rules. Convert 13.56 MHz to Hertz, Kilohertz, Megahertz, or Gigahertz. Identify rules and operating devices at the 13.56 MHz frequency bandwidth.

### 13.56 MHz Wireless Frequency Explorer - FCC ID

LEDs D3 and D5 glow green if the appropriate voltages are applied. U1 is a 13.56MHz clock providing a 50% DC, 0-5V square wave. U2A provides a pulse- width adjustable source to drive U4, the DEIC420 gate driver IC. © Littelfuse, Inc. 2019. PRF-1150 13.56MHz 1kW Class E RF Generator Doc #9200-0255 Rev 1 2.

### PRF-1150 1KW 13.56 MHz Class E RF Generator Module ...

CLASS-E operation. HV PS Figure 2, Class-E RF Generator 4. CIRCUIT DESCRIPTION a. RF pulse generator circuit The pulse oscillator and pulse control circuit, U2 and U3 in Figure 2, is designed to create an ISM frequency of 13.56MHz. R8 sets the Flip Flop IC timing, changing the pulse width from 14nS to 35nS at the signal input of DRF1200.

### Application Note 13.56 MHz, CLASS-E, 1KW RF Generator ...

1W Class E at 82% efficiency 13.4 W Class E at 93% efficiency This work: Achieved output power of 27W at 92% efficiency Successful Class E power amplifier at 13.56 MHz GaN has been proven to work very well at this frequency and deliver high power. 14

### High-Power High-Efficiency GaN 13.56 MHz Class-E Power ...

6.765 MHz: 6.795 MHz 6.78 MHz 30 kHz A Subject to local acceptance: FIXED SERVICE & Mobile service: 13.553 MHz: 13.567 MHz 13.56 MHz 14 kHz B Worldwide: FIXED & Mobile services except Aeronautical mobile (R) service: 26.957 MHz: 27.283 MHz 27.12 MHz 326 kHz B Worldwide: FIXED & MOBILE SERVICE except Aeronautical mobile service, CB Radio: 40.66 ...

### ISM band - Wikipedia

LF class D\HF Class C or D amplifiers; Regulated Switch-mode DC Section; More info. CDX. 1.5kW Available 400kHz, 2MHz, 13.56MHz, 27.12MHz, 40.68MHz, or 60MHz choose any two. Regulated switch-mode DC Section; Up to1500W per output - water cooled ... 13.56 to 60 MHz ...

### RF Power Product Selector Tool | XP Power

Thnkx for the suggestion Bill\_Marsden. I research and I came to a conclusion either class C or Class E should be used.I have got many paper which use class E amplifiers for 13.56 MHz and they also say Class E easier to design and that in class C the output power reduces as conduction angle is decreased (which is done to increase the efficiency).

### power amplifier at 13.56mhz | All About Circuits

The prototype generator uses a pair of DE375-102N12A MOSFETS driven by DEIC420 gate drive ICs in a half-bridge topology operating Class-D at 13.56MHz. We have achieved a power output of 3KW at 83.5% efficiency. A pair of modules generates 5KW at 89% efficiency using a total of four DE375-102N12A RF MOSFETS.

**3kW and 5kW half-bridge Class-D RF generators at 13.56 MHz ...**

The amplifier operates at 13.56 MHz and uses a drive level of 12 W to attain a drain efficiency of 86% and an overall efficiency of 84%. All harmonics are more than 40 dB below the carrier. View on IEEE. doi.org.

**Figure 3 from A low-cost class-E power amplifier with sine ...**

13.56Mhz 1KW 320V 3.7A 86% Table 1. Key Specification OVERALL CONCEPT This high efficiency RF power generator uses a DRF1200 to minimize layout parasitics and optimize efficiency for CLASS-D and CLASS-E operation. a. RF pulse generator circuit The pulse oscillator and pulse control circuit is designed to create an ISM frequency of 13.56MHz and

**13.56 MHz, CLASS-E, 1KW RF Generator using a Microsemi ...**

This paper describes design and implementation of highly efficient, low cost 13.56 MHz, 1.5kW RF source for ICP-AES. The design is based on current mode class-D power amplifier built using push-pull hybrid DRF1300. Prototype power amplifier achieves drain efficiency of 90% for power output above 1kW.

**Figure 1 from A 13.56 MHz high power and high efficiency ...**

Description: 1. R20XC is a 13.56MHz driver - free read only IC tag serial number of the mini card reading device. In the process of use, you can pull out and plug at will (plug and play), without external power, the user does not need to load any driver, through the data interface output to the computer, equivalent to automatic keyboard input number. 2. The Products are widely used in ...

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